

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

BOARD ORDER NO. 6-95-106
WDID NO. 6B360304025

REVISED WASTE DISCHARGE REQUIREMENTS

FOR

36-AA-0045

VICTORVILLE CLASS III LANDFILL
AND CLASS II SURFACE IMPOUNDMENTS

San Bernardino County

The California Regional Water Quality Control Board, Lahontan Region (Regional Board) finds:

1. Dischargers

On March 15, 1995 the County of San Bernardino submitted a complete revised Report of Waste Discharge for the Victorville Class III Landfill and Class II Surface Impoundments. For the purpose of this Regional Board Order (Order), the County of San Bernardino and the United States Bureau of Land Management (landowner) are referred to as the "Dischargers."

2. Facility

The Victorville Class III Landfill and Class II Surface Impoundments are the facilities that receive and store waste. For the purposes of this Order, the Victorville Class III Landfill and Class II Surface Impoundments are referred to as the "Facility." The Class III Landfill is referred to as the "Landfill" and the Class II Surface Impoundments are referred to as the "Surface Impoundments."

3. Order History

The Regional Board previously adopted Waste Discharge Requirements (WDRs) for the Landfill and Surface Impoundments under Board Order No. 6-85-135, which was adopted on November 14, 1985. Board Order No. 6-93-10046 was adopted on September 9, 1993, and amended the WDRs for the Landfill to incorporate the requirements of Title 40, Code of Federal Regulations, Parts 257 and 258 (Subtitle D) as implemented in the State of California under State Water Resources Control Board (SWRCB) Resolution No. 93-62.

4. Reason for Action

The Regional Board is revising these WDRs to require the Dischargers to achieve compliance with the revised requirements of Chapter 15 and to incorporate requirements of the previously adopted Board Order amendment No. 6-93-10046. The amendment was adopted to implement the Subtitle D regulations in accordance with SWRCB Resolution No. 93-62.

5. Facility Location

The Facility is located near Stoddard Wells Road approximately 4 miles north of the City of Victorville, San Bernardino County, within Section 23, T6N, R4W, SBM, as shown on Attachment "A," which is made part of this Order.

6. Description of Landfill

The Landfill is an unlined landfill which receives greater than 100 tons of waste per day. The Landfill is permitted by the California Integrated Waste Management Board (IWMB) to receive 660 tons per day. Based on the quantity of waste received per day, the Landfill is a Large landfill as defined in Subtitle D. As such, Subtitle D requirements became effective for this Landfill on October 9, 1993. Regional Board staff have reviewed information submitted by the Dischargers which illustrates the footprint of waste discharged as of October 9, 1993. The footprint documents the limits of waste which are exempt from Subtitle D requirements for composite liners, and is shown as Attachment "B", which is made a part of this Order.

7. Description of Surface Impoundments

The Surface Impoundments consist of four unlined ponds which receive septage and chemical toilet wastes. Approximately 5.8 million gallons per year of septage and chemical toilet wastes are discharged to the Surface Impoundments.

8. Authorized Disposal Sites

The footprint of waste shown in Attachment "B" is the only authorized Landfill disposal site. A revised Report of Waste Discharge is required if the Dischargers propose to discharge waste outside the Landfill footprint area. The Surface Impoundments shown in Attachment "B" are the only authorized disposal site for septage and chemical toilet wastes.

9. Waste Classification

The Landfill and Surface Impoundments receive waste derived from the City of Victorville and the surrounding desert communities. The waste received at the Landfill is defined in Sections 2523 and 2524 of Chapter 15 as inert and non-hazardous solid waste, respectively, and is defined as municipal solid waste in Subtitle D. The waste received at the Surface Impoundments is liquid designated waste as defined in Section 2522 of Chapter 15.

10. Waste Management Unit Classification

Pursuant to Section 2533, Chapter 15, Title 23, California Code of Regulations, the Landfill is classified as a Class III Waste Management Unit (WMU). The Landfill is classified as Large Landfill in Subtitle D. Pursuant to Section 2532 of Chapter 15 the Surface Impoundments are classified as Class II WMUs.

11. Subtitle D Compliance Status

Board Order amendment No. 6-93-10046 required the submittal of several items in order to comply with Subtitle D for the Landfill. The Dischargers have submitted complete information regarding the acceptance of liquids, the existing waste footprint, the distance from the Landfill to the nearest drinking water source, the water quality protection standard, landfill closure, and whether the Landfill is located in a 100 year floodplain or a wetlands. The above listed items which have already been submitted fulfill the submittal requirements of Subtitle D as implemented by SWRCB Resolution No. 93-62.

12. Surface Impoundment Closure

The revised Chapter 15 regulations require that all Class II WMUs include a liner system. This Order documents the time schedule for the Dischargers to cease discharge to and close the Surface Impoundments, and prohibits the discharge of waste to the Surface Impoundments after April 1996.

13. Water Quality Protection Standard

The WQPS consists of constituents of concern (including monitoring parameters), concentration limits, monitoring points, and the point of compliance. The standard applies over the active life of the Facility, closure and post-closure maintenance period, and the compliance period.

The ground water at the point of compliance has been polluted by releases from the Landfill and/or Surface Impoundments. The constituents of concern and monitoring points are described in Monitoring and Reporting Program 95-106, which is attached to and made part of this Order. The monitoring points have been established to evaluate the condition of ground water pollution during the EMP, and includes wells at the point of compliance.

14. Statistical Methods

Statistical analysis of monitoring data is not necessary for this Facility because the ground water has already been polluted, and the Dischargers are conducting an EMP. The Dischargers will conduct non-statistical analysis of data to determine if any new releases occur during the EMP and/or Corrective Action Program (CAP). Non-statistical methods for data analysis are described in Monitoring and Reporting Program No. 95-106.

15. Detection Monitoring

The Dischargers are currently conducting an EMP to evaluate the extent of the impacts to water quality and to design a CAP. A Detection Monitoring Program is not required during the EMP or the CAP. A Detection Monitoring Program will be established once the condition of ground water pollution is abated.

16. Evaluation Monitoring

An EMP is required, pursuant to Section 2550.9 of Chapter 15, Title 23, California Code of Regulations, to evaluate evidence of a release which has been verified at the Facility. Monitoring and Reporting Program 95-106 establishes and describes the EMP, and includes a time schedule for the Dischargers to complete the EMP and propose a CAP.

17. Corrective Action

A CAP to remediate released wastes from the Facility may be required pursuant to Section 2550.10 should results of the EMP warrant a CAP.

18. Site Geology

The Facility is located on coarse grained alluvium which varies in thickness from 60 to 250 feet. The alluvium is underlain by fractured quartz monzonite bedrock.

19. Site Hydrogeology

Ground water exists in the fractured bedrock beneath the Facility at depths ranging from approximately 200 to 260 feet below ground surface. Ground water flows toward the south-southeast toward the Mojave River, which is located approximately 2 miles to the east. Groundwater flows within the bedrock fractures and at the bedrock-alluvium interface.

20. Site Surface Hydrology and Storm Water Runoff

There is no perennial surface water flow at the site. All storm water from the Facility is regulated under the state Amended General Industrial Activities Storm Water Permit.

21. Site Topography

Site topography is shown on Attachment "A", which is made a part of this Order.

22. Climatology

The precipitation in the area of the Facility is approximately 4.2 inches annually. The evaporation rate is approximately 102 inches annually.

23. Land Uses

The land uses at and surrounding the Facility consists of the following:

- a. residential; and
- b. open desert land.

24. Closure and Post-Closure Maintenance

The Dischargers have submitted a Preliminary Closure and Post-Closure Monitoring Plan (CPCMP). The plan generally proposes in place closure of the waste and an extended period of site monitoring. The monitoring media include the unsaturated zone, ground water, and final cover materials. In August 1995 Regional Board staff deemed the plan complete and technically adequate. This Order requires that the Dischargers review the plan annually to determine if significant changes in the operation of the Facility warrant an update of the plan.

25. Financial Assurance

The Dischargers have provided documentation that a financial assurance fund has been developed for closure, post-closure maintenance, and potential corrective action requirements. The fund has been developed as a single entity for all landfills owned and/or operated by the County of San Bernardino. The fund meets the requirements of Chapter 15 and Subtitle D for financial assurance. This Order requires the Dischargers to report the amount of money available in the fund as part of the annual report. This Order also requires that the Dischargers demonstrate in an annual report that the amount of financial assurance is adequate, or increase the amount of financial assurance.

26. Receiving Waters

The receiving waters are the ground waters of the Upper Mojave River Ground Water Basin (Department of Water Resources Hydrologic Unit No. 6-42).

27. Lahontan Basin Plan

The Regional Board adopted a Water Quality Control Plan for the Lahontan Region (Basin Plan) which became effective on March 31, 1995. This Order implements the Basin Plan.

28. Beneficial Ground Water Uses

The present and probable beneficial uses of the ground waters of the Upper Mojave River Ground Water Basin as set forth and defined in the Basin Plan are:

- a. municipal and domestic supply;
- b. agricultural supply;
- c. industrial service supply;
- d. freshwater replenishment; and
- e. aquaculture.

29. California Environmental Quality Act

These WDRs govern an existing facility that the Dischargers are currently operating. The project consists only of the continued operation of the Facility and is therefore exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) in accordance with Section 15301 of the CEQA Guidelines.

30. Notification of Interested Parties

The Regional Board has notified the Dischargers and all known interested agencies and persons of its intent to adopt revised WDRs for the project.

31. Consideration of Interested Parties

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Dischargers shall comply with the following:

I. DISCHARGE SPECIFICATIONS

A. Receiving Water Limitations

The discharge of waste shall not cause the presence of the following substances or conditions in ground waters of the Upper Mojave River Ground Water Basin:

1. any perceptible color, odor, taste, or foaming;
2. any presence of toxic substances in concentrations that individually, collectively, or cumulatively cause detrimental physiological response in humans, plants, animals, or aquatic life; and
3. the presence of constituents of concern in concentrations that exceed background levels.

II. REQUIREMENTS AND PROHIBITIONS

A. General

1. The discharge shall not cause a pollution as defined in Section 13050 of the California Water Code, or a threatened pollution.
2. The discharge shall not cause a nuisance as defined in Section 13050 of the California Water Code.

3. The discharge of solid wastes, leachate, or any other deleterious material to the ground waters of the upper Mojave River Ground Water Basin is prohibited.
4. The discharge of waste except to the authorized disposal sites is prohibited.
5. The disposal sites shall be protected from inundation, washout, or erosion of wastes and erosion of covering materials resulting from a storm or a flood having recurrence interval of once in 100 years.
6. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through solid wastes discharged at the site.
7. Water used for dust control during disposal site operations shall be limited to amounts which will not result in runoff.
8. The discharge of wastes in a manner that does not maintain a five foot soil separation between the wastes and the seasonal high ground water elevation is prohibited.
9. At closure, all facilities must be closed in accordance with a final CPCMP approved by the Regional Board.
10. At any given time, the concentration limit for each constituent of concern shall be equal to the background value of that constituent.
11. The concentration limits for each constituent of concern shall not be exceeded.
12. All water used for dust control shall not contain detectable concentrations of volatile organic constituents (VOCs).

B. Landfill

1. The exterior surfaces of the Landfill shall be graded to promote lateral runoff of precipitation and to prevent ponding.
2. Wastes at the Landfill other than inert wastes shall not be placed in ponded water from any source whatsoever.
3. No hazardous or designated wastes shall be discharged to the Landfill.
4. Waste discharged to the Landfill shall have a moisture content of 50 percent or less.

5. The Dischargers shall remove and relocate any waste which is or has been discharged at the Landfill in violation of these requirements. The waste shall be relocated to a site which is permitted to receive such wastes. All removal and relocation projects shall be coordinated with regulatory agencies, including the County of San Bernardino.
6. During periods of precipitation, the Landfill disposal activity shall be confined to the smallest area possible based on the anticipated quantity of wastes and operation procedures.
7. The Dischargers shall implement a periodic load checking program as required in Section 2523(b)(2) of Chapter 15.

C. Surface Impoundments

1. Septage sludge removed from the Surface Impoundments may not be discharged to the Landfill unless the following criteria have been met:
 - a. The sludge contains less than 50 percent moisture content; and,
 - b. The sludge is characterized in accordance with an approved Sampling and Analysis Plan (SAP) as a non-hazardous solid waste or inert waste as defined in Chapter 15. For man-made organic constituents, the concentration of any one constituent in the septage sludge shall not exceed 100 times the laboratory detection limit for that constituent in solution.
2. The Surface Impoundment freeboard shall not be less than two feet.
3. There shall be no discharge from the Surface Impoundments to the adjacent land areas.
4. If the Surface Impoundments are to be operated after April 1996, they shall be operated in compliance with the siting and construction criteria of Sections 2530 and 2532 of Chapter 15.
5. No hazardous waste shall be discharged to the Surface Impoundments.

D. Detection Monitoring Program

The Dischargers shall establish a detection monitoring program as required in Section 2550.1(a)(1) of Chapter 15 if required by the Regional Board.

E. Evaluation Monitoring Program

The Dischargers shall establish a revised evaluation monitoring program whenever there is significant evidence of a new release from the Facility as required in Section 2550.1(a)(2) or (3) of Chapter 15.

F. Corrective Action Program

The Dischargers shall institute a corrective action program when required pursuant to Section 2550.1(a)(4) of Chapter 15.

III. DATA ANALYSIS

A. Nonstatistical Analysis

The Dischargers shall determine whether there is significant non-statistical evidence of a new release from the Facility. Non-statistical evidence may include time series plots, unexplained volumetric changes in the Facility, unexplained stress in biological communities, unexplained changes in soil characteristics, visible signs of leachate migration, and unexplained water table mounding beneath or adjacent to the Facility, or any other change in the environment that could be reasonably be expected to be the result of a new release from the Facility.

B. Verification Procedures

1. The Dischargers shall immediately initiate verification procedures as specified below whenever there is a determination by the Dischargers or Executive Officer that there is evidence of a new release. If the Dischargers decline the opportunity to conduct verification procedures, the Dischargers shall submit a technical report as described below under the heading Technical Report Without Verification Procedures.
2. The verification procedure shall only be performed for the constituent(s) that has shown evidence of a new release, and shall be performed for those monitoring points at which a new release is indicated.
3. The Dischargers shall either conduct a composite retest using data from the initial sampling event with all data obtained from the resampling event or shall conduct a discrete retest in which only data obtained from the resampling event shall be analyzed in order to verify evidence of a new release.
4. The Dischargers shall report to the Regional Board by certified mail the results of the verification procedure, as well as all concentration data collected for use in the retest within seven days of the last laboratory analysis.

5. The Dischargers shall determine, within 45 days after completion of sampling, whether there is evidence of a new release from the Facility at each monitoring point. If there is evidence of a new release, the Dischargers shall immediately notify the Regional Board by certified mail. The Executive Officer may make an independent finding that there is evidence of a new release.
6. If the Dischargers or Executive Officer verifies evidence of a new release, the Dischargers are required to submit, within 90 days of a determination that there is or was a new release, a technical report pursuant to Section 13267(b) of the California Water Code. The report shall propose a revised EMP **OR** make a demonstration to the Regional Board that there is a source other than the Facility that caused evidence of a new release.

C. Technical Report Without Verification Procedures

If the Dischargers choose not to initiate verification procedures, a technical report shall be submitted pursuant to Section 13267(b) of the California Water Code. The report shall propose a revised EMP, **OR**, attempt to demonstrate that the new release did not originate from the Facility.

IV. PROVISIONS

A. Rescission of Waste Discharge Requirements

Board Order No.'s 6-85-135 and 6-93-10046 are hereby rescinded.

B. Standard Provisions

The Dischargers shall comply with the "Standard Provisions for Waste Discharge Requirements," dated September 1, 1994, in Attachment "C", which is made part of this Order.

C. Monitoring and Reporting

1. Pursuant to the California Water Code Section 13267(b), the Dischargers shall comply with the Monitoring and Reporting Program No. 95-106 as specified by the Executive Officer.
2. The Dischargers shall comply with the "General Provisions for Monitoring and Reporting," dated September 1, 1994, which is attached to and made part of the Monitoring and Reporting Program.

D. Closure and Post-Closure

The preliminary CPCMP shall be updated if there is a substantial change in operations. A report shall be submitted annually indicating conformance with existing operations. To comply with Chapter 15, a final CPCMP shall be submitted at least 180 days prior to beginning any partial or final closure activities or at least 120 days prior to discontinuing the use of the site for waste treatment, storage or disposal, whichever is greater. The California IWMB, pursuant to Title 14, California Code of Regulations, requires the submittal of a final closure plan a minimum of two years prior to closure.

E. Financial Assurance

The Dischargers shall submit a report annually providing evidence that adequate financial assurance pursuant to the requirements of the WDRs has been provided for closure and for potential releases. Evidence shall include the total amount of money available in the fund developed by the Dischargers. In addition, the Dischargers shall either provide evidence that the amount of financial assurance is still adequate or increase the amount of financial assurance by the appropriate amount. An increase may be necessary due to inflation, a change in regulatory requirements, a change in the approved closure plan, or other unforeseen events.

F. Modifications to the Facility

If the Dischargers intend to expand the capacity of the Facility, a report shall be filed no later than 90 days after the total quantity of waste discharged at this site equals 75 percent of the reported capacity of the site. The report shall contain a detailed plan for site expansion. This plan shall include, but is not limited to a time schedule for studies design, and other steps needed to provide additional capacity. If site expansion is not undertaken prior to the site reaching the reported capacity, the total quantity discharged shall be limited to the reported capacity.

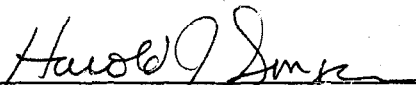
V. TIME SCHEDULE

A. Surface Impoundment Closure

1. By **October 30, 1995**, the Dischargers shall submit a technical report to the Regional Board which includes the detailed designs for the new septage disposal facility.
2. By **March 30, 1996**, the Dischargers shall submit a workplan which proposes the manner and methods by which the existing Surface Impoundments will be clean closed.

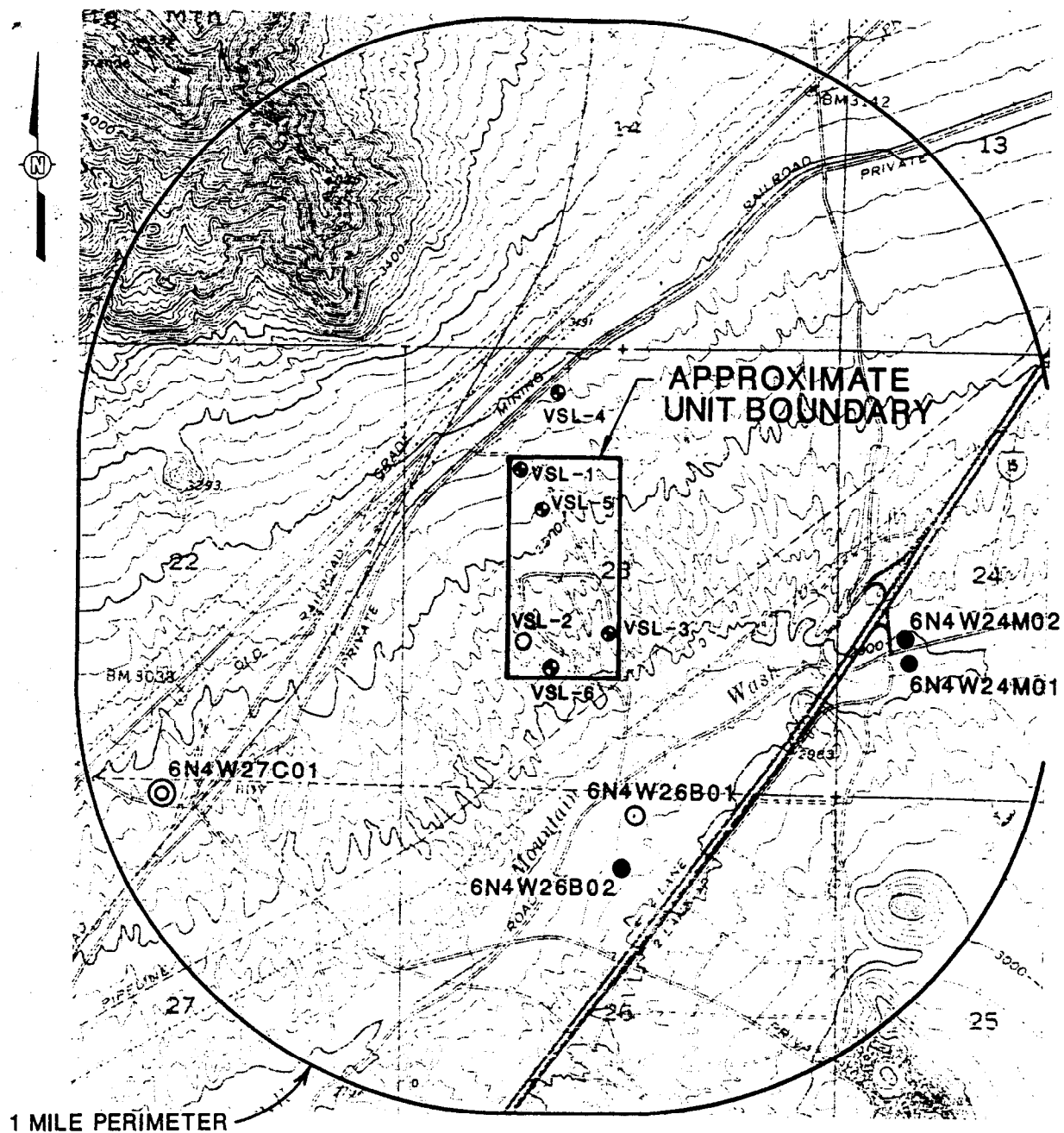
3. By April 30, 1996, the Dischargers shall cease discharge to the existing Surface Impoundments at the Facility.
4. By July 30, 1996, the Dischargers shall complete clean closure activities for the existing unlined Surface Impoundments at the Landfill.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by California Regional Water Quality Control Board, Lahontan Region, on September 14, 1995.



HAROLD J. SINGER
EXECUTIVE OFFICER

- Attachments:
- A. Location Map and Facility Topography
 - B. Landfill Footprint of Waste
 - C. Standard Provisions for Waste Discharge Requirements



EXPLANATION:

- 6N4W24M02 WATER WELL LOCATION
- ⊙ 6N4W27C01 QUESTIONABLE WELL LOCATION
- 6N4W26B01 ABANDONED WELL
- ⊕ VSL-1 EXISTING MONITORING WELL

ATTACHMENT "A"
SITE LOCATION AND TOPOGRAPHY